

claim 1 wherein:

said ignition apparatus includes an ignition primary coil;  
said second detection circuit is an off-surge voltage  
detection circuit for detecting a current interrupt of said ignition  
primary coil; and

said detection signal is supplied to said control means via  
an OR-gate circuit provided between said off-surge voltage  
detection circuit and said control means.

7. An automotive engine control apparatus as claimed in  
claim 1 wherein:

said ignition apparatus includes an ignition secondary coil;  
said second detection circuit is a discharge current detection  
circuit for detecting a discharge current of said ignition secondary  
coil; and

said detection signal is supplied to said control means via  
an OR-gate circuit provided between said discharge current  
detection circuit and said control means.

8. An automotive engine control apparatus as claimed in  
claim 1, further comprising:

a warning/display apparatus for notifying the abnormal state  
in the case where any one of said first abnormal state storage means  
and said second abnormal state storage means stores thereinto the  
judgment result of said cylinder operated under the abnormal state.

9. An automotive engine control apparatus as claimed in

claim 8 wherein:

said automotive engine control apparatus is further comprised of:

warning/display synthesizing means for issuing such a notification that said abnormal state occurred in an injection system/ignition system/cylinder system is not discriminated from each other in the case where any one of said first and second abnormal state storage means stores thereinto the judgment result of said cylinder operated under the abnormal state; and

said warning/display apparatus is operated in response to a signal supplied from said warning/display synthesizing means.

10. An automotive engine control apparatus as claimed in claim 1, further comprising:

a communication interface circuit for communicating with a predetermined external tool provided outside of said automotive engine control apparatus;

display/transmission means for transmitting/displaying malfunction information to/on said external tool; and

reset means for initializing the storage contents of said first and second abnormal state storage means by means of said external tool.